Datalink Systems Inc.

Datalink Systems Inc. has been developing wireless IP packet data Communications Software for more than ten years!

This presentation focuses on how our DataNET solutions integrates with Kenwood's NEXEDGE digital radios and earlier analog radios.

Kenwood Mobile Radios
and DataNET

DataNET integrates NX radios with a range of data terminals and computers

DataNET *by Datalink Systems Inc.*

I.P. Packet Data Communications Software

DataNET is not just another GPS tracking software program. It is a comprehensive wireless data solution used by Government Agencies and Corporations Worldwide.

DataNET is a complete “end to end” software solution designed to integrate with a range of 3rd. Party Hardware products. Based on a conventional “client/server” relationship, rather than an ASP service where the server is owned and controlled by a 3rd. Party, DataNET can be installed in any Windows computer.

DataGate is the packet data IP routing hub which can be operated as a central server, catering to a number of unrelated customers located anywhere there is internet access, or sold to larger corporations or government agencies who wish to have complete “end to end” control within their own network. DataGate can also augment an existing legacy host system, adding new networks and features. DataGate will connect to an existing host program through a windows port or common database.

DataGate will link to SQL and other ODBC compliant databases . It is also available with AES-256 encryption for Government and Law Enforcements applications.

DataHOST *by Datalink Systems Inc.*

DataHost is the optional "client" program that resides on the customer's computers, providing extensive tracking and reports options.

DataHost is fully integrated with the following mapping programs. Google Maps, Google Earth, Bing. Other mapping programs can be used such as Streets-on-a-Disk and ESRI-GIS. Those may require some development. Datahost can also provide a NMEA GPS output for Marine Charts and 3rd. Party development. Mapping licenses may be required for some applications.

Unlike the majority of ASP Web based AVL-GPS vehicle tracking services where a 3rd. Party hosts all the data, DataHost stores all the historical data on the customer's computer, allowing for instant recall and Global map zooming in seconds.

DataHost is the "client" software located in customer's computers and connects to the DataGate over the Internet, Intranet or local LAN. The embedded mapping program links are is Google Maps, Bing Maps and Microsoft Mappoint.

Kenwood NexEdge and FleetSync

- DataNET uses the Kenwood NEXEDGEradios and NXR repeaters and Datalink's DataGate IP router to route two-way data packets between remote NX radios and the base DataGate IP routing software. The DataNET software also allows 3rd party devices to be connected to the data communication ports on the rear of the NX radios.
- DataNET can operate in a basic mode simply processing GPS data from remote radios and two-way text messaging, or in advanced mode with a range of hardware connected to the radios.
- DataNET will also work with analog radios using Fleetsync.

Third Party hardware
for Kenwood NX700/800 radios

DataNET allows a choice of third party terminals to be connected to the RS-232 serial data connector on the rear of the NX700/800 mobile radios. Compatible terminals include Windows Tablets running our Mobius software, Motia MDT terminals and the advanced Tracker i50B/C device which can provide multiple serial port connections including an OBDll engine computer interface. The Tracker i50 has an internal 3 axis accelerometer module which can monitor aggressive and dangerous driving habits including excessive speeds and automatic accident reporting.

The following screens provide more details on these terminals.

Multi-network add-on terminal

adds Iridium Satellite and/or GSM networks to Kenwood NX700/800 radios with auto-switching when UHF/VHF network is lost.

The Tracker i50b designed by Datalink is probably the most advanced mobile data terminal available. Garmin nuvi add-on provides for two-way text messaging and map routing.

http://www.avl-software.com/Tracker/

- Accelerometer chip measures “G” forces
- Engine computer interface
- Three external serial COM ports
- 8 I/O ports
- Internal Iridium modem (optional)
- Internal GPRS modem (optional)
- 12 channel GPS
- Delayed power off
- Sleep mode
- Emergency alert capability
- Dual network capability
- Wi-Fi port

iMDT-2000 messaging terminal

The iMDT-2000 is a low cost yet very adaptable mobile terminal which can deliver two-way text messaging, GPS location reporting, and other additional services unique to each client.

With a total of four serial COM ports the MDT connects to the rear data port on Kenwood NX radios.

The iMDT-2000 will also connect to Lone Worker safety system and other devices.

http://www.motia.co.kr/english/main02.asp

GARMIN NUVI two-way messaging and routing

Garmin nuvi units will work with i50B Tracker units

In the transportation of freight, time is money! Drivers getting lost on route costs both time and fuel, and in today's economy the fleet manager must run an efficient operation. By selecting Datalink's DataNET "back end" software and a Garmin nuvi Fleet Management Terminal such as the 765, drivers will be able to take the shortest and quickest route to any address with turn by turn visual track and voice directions.

The power of the DataNET software allows the dispatcher to select a destination point on a map and to transmit the location over the radio link to the vehicle, where the Garmin unit will calculate the vehicle's current location and the best route to the destination point and display it for the driver to follow. DataNET will also allow two-way text messages to be exchanged between the dispatch desk and the driver. The driver can send a choice of "canned" messages. The GPS location of the vehicle is automatically sent to the dispatcher's computer mapping display.

For more details go to www.avl-software.com/Garmin

Mobius

Mobius, developed by Datalink Systems Inc. is a “windows” based software program for mobile laptops or ruggedized tablets. Mobius and DataNET can provide an "end to end" software solution over multiple networks. Mobius would be installed in a mobile Laptop or Tablet P.C. connected to a Kenwood NX 700/800 mobile radio. At the base end DataGATE routes the data to DataHost workstations or 3rd. party programs.

Mobius can also provide on screen mapping and navigation plus two-way text messaging. By adding a GPS receiver, the vehicle’s own position appears on the map as well as being transmitted to base DataHosts.

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http://www.avl-software.com/Mobius/

NEXEDGE plus Wi-Fi

Datalink has developed a WiFi link which will allow two-way text messages and Emails to be sent/received by an Ipod Touch or Ipad linked to Kenwood NX-700/800 mobiles and NX-200/300 portables. A Wi-Fi module is installed inside the NX_700/800 radios or an external dongle attached to the mic' connector on the portables.

An SMA connector on the rear of the mobile radios allows for a remote Wi-Fi 2.4Mhz antenna to be mounted on the external vehicle surfaces for longer range.

Email TCP data packets are converted to plain binary text by the DataGate program to reduce the over the air data traffic.

GPS location using the Ipod internal GPS receiver is transmitted with each message and also on a programmed timed report basis.

NX-200/300 with Wi-Fi

Datalink's WiLink Wi-Fi dongle allows for a wide range of compatible Wi-Fi enabled PDAs and Smart terminals such as Ipod touch to exchange two-way text messages, Emails and GPS reports with a base dispatch or messaging from such as Datalink's DataHost.

NX-200/300 portables must have the updated transparent-2 firmware installed.

Contact Datalink Systems Inc. for more information on the WiLink.

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More about Datalink

Datalink Systems Inc., has been developing hardware and software for over 10 years. The company is small, however well respected for over ten years within the wireless data communications market.

It is an approved development partner with the following companies.

- Iridium
- Globalstar
- Mobile Satellite Ventures
- Inmarsat
- Kenwood USA (Mobile Radio)
- Kenwood Canada (Mobile Radio)

Datalink also specializes in custom developments for wireless IP niche markets.

Our software is available free for evaluation purposes. For a live demonstration and more information contact:

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